

PATENT ABSTRACTS OF JAPAN

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(21)Application number : 2001-291229 (71)Applicant : TOYOTA MOTOR CORP

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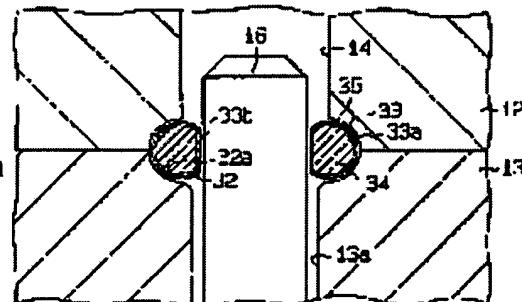
(54) HIGH-PRESSURE PUMP

(57)Abstract:

PROBLEM TO BE SOLVED: To provide a high-pressure pump which suppresses any stepped wear of a side surface of a plunger.

SOLUTION: A pump chamber 14 is formed in a housing 12 of a high-pressure fuel pump. In the cylinder 13, the plunger 16 is supported in a plunger sliding hole 13a in a reciprocatively slidable manner in the axial direction. At a boundary part of the plunger sliding hole 13a and the pump chamber 14, a storage recessed part 32 to surround the plunger 16 is formed, and an elastically deformable annular member 33 to slidably guide the plunger 16 is disposed in the storage recessed part 32.

An inner circumferential surface 32a of the storage recessed part 32 is arc-shaped in the axial direction of the plunger sliding hole 13a, and an outer circumferential surface 33a of the annular member 33 forms an arc-shape along the inner circumferential surface 32a of the storage recessed part 32.



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